

PHYSICAL SCIENCE

Name _____

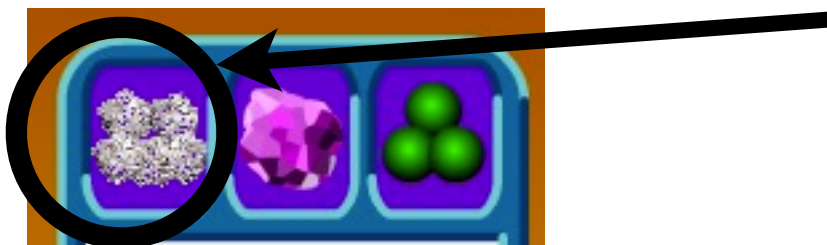
DSHS
Mrs. Ellis

To simulate our melting ice lab activity from class, you will go to the following web address:

<http://www.kentchemistry.com/links/Matter/PhaseChangesA.htm>

(You may need to click run Adobe flash player - click the puzzle piece in the middle of the screen)

Click on the **SOLID** white / clear material to begin the experiment



Watch what is happening to the substance as heat is added to the system.

Look at the graph of temperature versus time and think about what was happening to the substances over time, in the boxes provided fill in the melting point of the substance and the boiling point of the substance. Fill it in here on this sheet as well.

Now enter the melting and boiling temperatures in the boxes below.

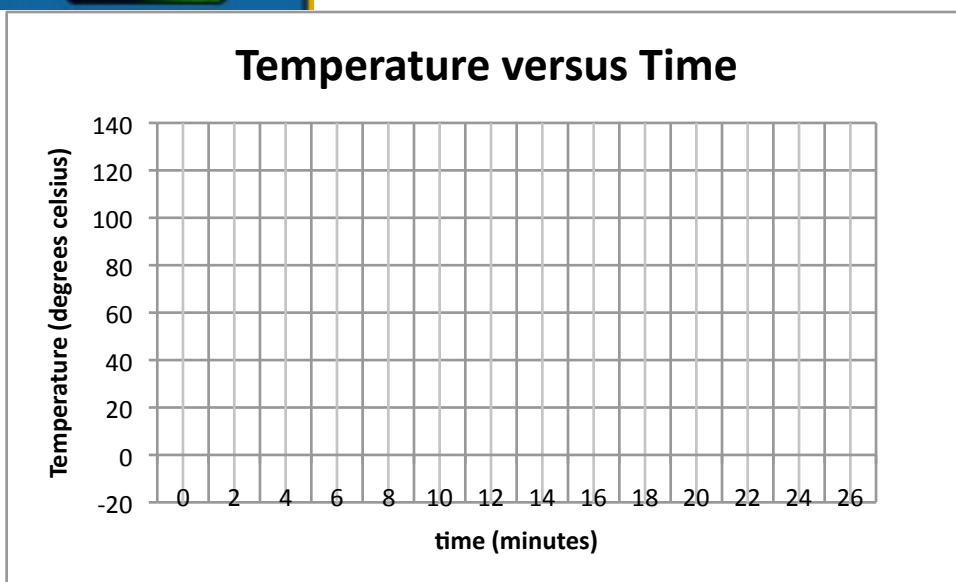
Then click the **CHECK** button.

Melting Temperature	Boiling Temperature
<input type="text"/>	<input type="text"/>

CHECK

If you do not get the answer correct the first time that is okay, try again until you get the correct values.

Now, graph the temperature verse time on the graph template below



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Use google to research what substance has the same melting and boiling point as the one that you looked at on Mr. Kent's chemistry page.

What substance did you come up with? _____

It should be something that is VERY common and that you interact with everyday! About 60% of your body weight is made up of this one compound!

When you see a change in temperature, that means there is a change in kinetic energy. The particles are moving fast. When you do not see a temperature change that means that there is a state change, all of the heat energy is going into separating the molecules from one another. Going from one state of matter to another results in a change in energy.

Describe the state change that you saw when the temperature of the substance hit 0 degrees Celsius?

Describe the state change that you saw when the temperature of the substance hit 100 degrees Celsius?

If you were doing this lab experiment in class, what would be two safety precautions that you would need to consider?